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## 2017 Annual Report to EPA

January 16, 2018

### SUMMARY OF INFORMATION COLLECTED

During the tracking period beginning January 1, 2017 ending December 31, 2017 twelve bypasses were recorded at the wastewater treatment plant and twenty-two SSO events were recorded. Included is a spreadsheet titled "Bypass-SSO Tracker" tabulating the events listed above.

### CONFIRMED I/I SOURCES

Crews replaced approximately 35' of 8" main, 20' of service line, removed two taps, replaced two manholes and replaced one manhole with a lamp hole. During normal preventative maintenance crews have spotted and repaired forty-seven cleanouts. You will find this work performed on a spreadsheet titled "I & I Sources Confirmed". Crews have also completed smoke testing on approximately 2,871' of main. Crews chose this area due to high flow during wet weather events. This area was targeted due to crews noticing broken cleanouts during preventative maintenance measures on undeveloped land. We use this method of smoke testing for finding broken cleanouts, illicit discharges into the collection system and faulty mains.

### PREVENTIVE MAINTENANCE ACTIVITIES

Our sewer department is made up of 4.5 crew members and has been busy this year cleaning, inspecting and repairing sewer mains. The results of their labor are as follows. Included in this report is a spreadsheet titled "Jetter Report 2017". This spreadsheet lists and describes all cleaning and inspection of sewer mains and manholes performed during the reporting period beginning January 1, 2017 ending December 31, 2017. Crews cleaned 8.293 miles of sewer main (5.708miles of said sewer main was root sawed); video inspected 1.869 miles of sewer mains. Crews inspected approximately 313 manholes during this reporting period and approximately 146 of those have a detailed inspection form completed. Also included is a copy of the "Lift Station Report 2017" showing run times, any maintenance performed on each lift station.

### STATUS OF POA AND CIP

The City has accepted CIPP bids for the 2017 and 2018 years. You will find the bid packet for approximately 6,407' of lining to be completed in the 2017 year and 6,168' of 8" main to be completed in the 2018 year. This work was and will be completed by SAK. Our focus with this lining is to finish the 14x area, and start on the 10x area. Of the 6,407' that was completed in 2017, 2,832' falls in the 14x the flow area and the remainder is in the 10x the flow area. Also, during the lining process we eliminated 59

taps, 16 of those taps had appeared to not have been capped. Of the 6,168' to be completed in 2018, 5,461' is located in the 10x the flow area and the remainder is areas we have CCTV and concluded to need attention. The 10x area is our next highest flow area.

The City had one major sewer project this year, Southtown Sewer Extension. This project includes the construction of approximately 5,756' of 10" and 2,097' of 8" gravity sewers with approximately 25 manholes. Project also includes construction of 2,787' of 8" force main with air release valves, and a duplex sewage lift station with 2 submersible pumps. This project will transfer most of the sewage from the Karlin Subdivision to the city's WWTF. Karlin Subdivision is currently served by a WWTF operated by Southtown Sewer Company (MO-0121924) that was purchased by the city. This project will eliminate most of the influent to the Southtown Sewer WWTF. This project will also allow the city to be able to provide more services for possible future growth. We plan to have this completed in the spring of 2018.

In June 2016 White River Engineering completed plans for the improvements to the West ditch at the Waste Water Facility. Smith and Edwards were awarded the bid to make improvements to the west oxidation ditch (newer of the two oxidation ditches). Improvements included removal of the side channel clarifier and replacement of the rotors in that ditch. This work was completed in June of 2017.

Olsson Associates has completed the engineering for the removal of lift station #3. This is an elaborate project in downtown Bolivar. The project will replace approximately 3,500 feet of 15" pipe and 80 feet of 8" pipe with replacement or installation of approximately 25 manholes. This will also alleviate a "bottle neck" effect that has a 10" and an 8" main leading to an 8" main. Upsizing the downstream main line from 8" to 15" will handle more flow. This will also be eliminating 8", 10" and 12" main. This work will also greatly reduce I & I in this area. In November 2017, the City had opened bids for this work to be completed and was awarded by council to Rosetta Construction in November. Rosetta has moved in equipment and started bringing in supplies. We anticipate the work will begin in January of 2018 and will be completed in 2018.

## **VIOLATIONS**

We had sixty-three "Violations" during the reporting period of January 1, 2017 to December 31, 2017. Attached will be two forms tabulating these violations; "WWTF Permit Violations Exceeding Limitations" and "Bypass-SSO Tracker".

### **List of Attachments**

- Bypass-SSO Tracker 2017
- I&I Sources Confirmed 2017
- Jetter Report 2017
- Lift Station Report 2017
- WWTF Permit Exceeding Limitations 2017
- SAK CIPP for 2017-2018
- Smoke Testing 2017